

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P676454

Luminaire Tested: **CCW-SA-1D-827-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676454
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-827-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T3 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

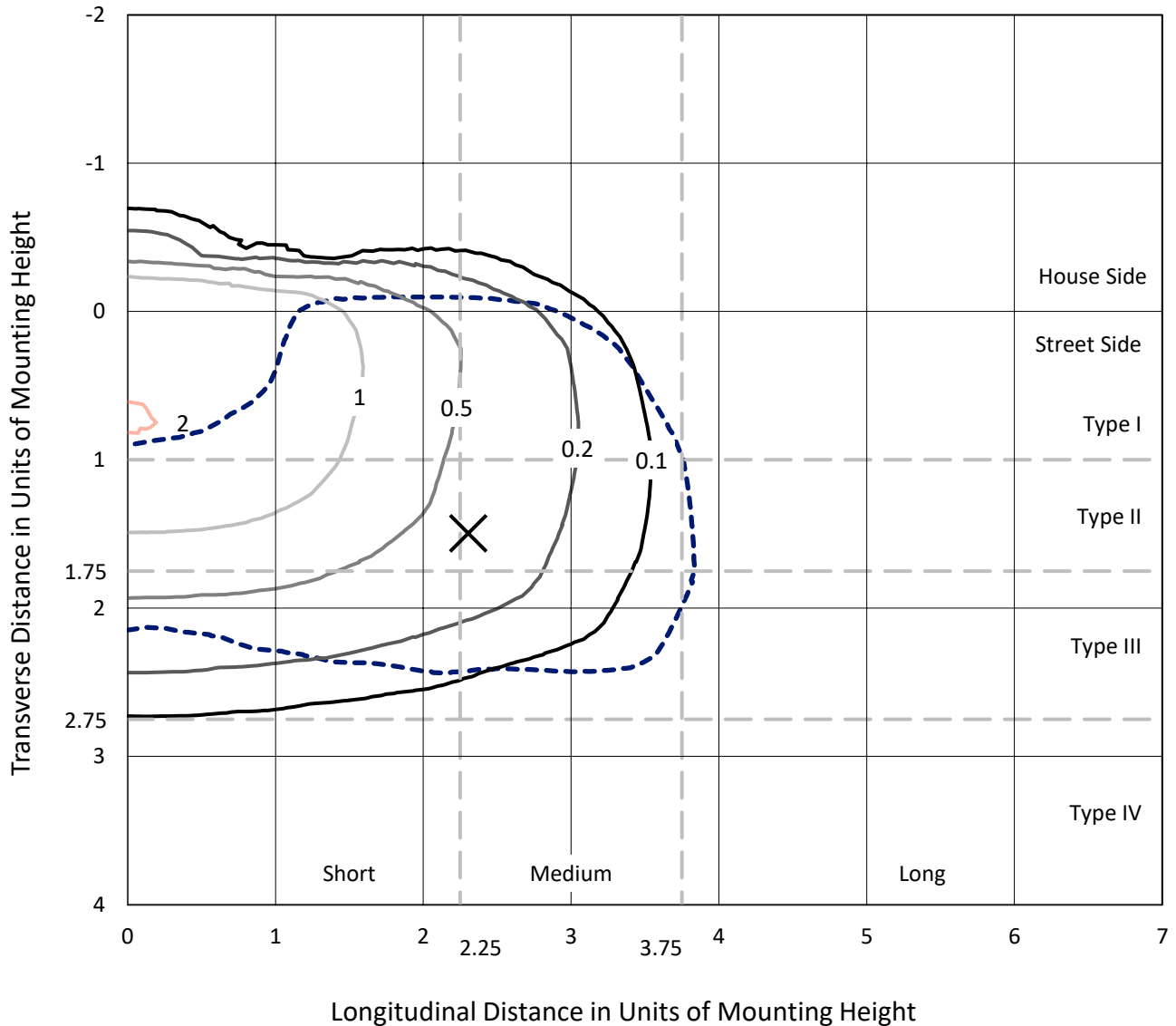
Lumens per Lamp: N/A
Luminaire Lumens: 2953.4 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

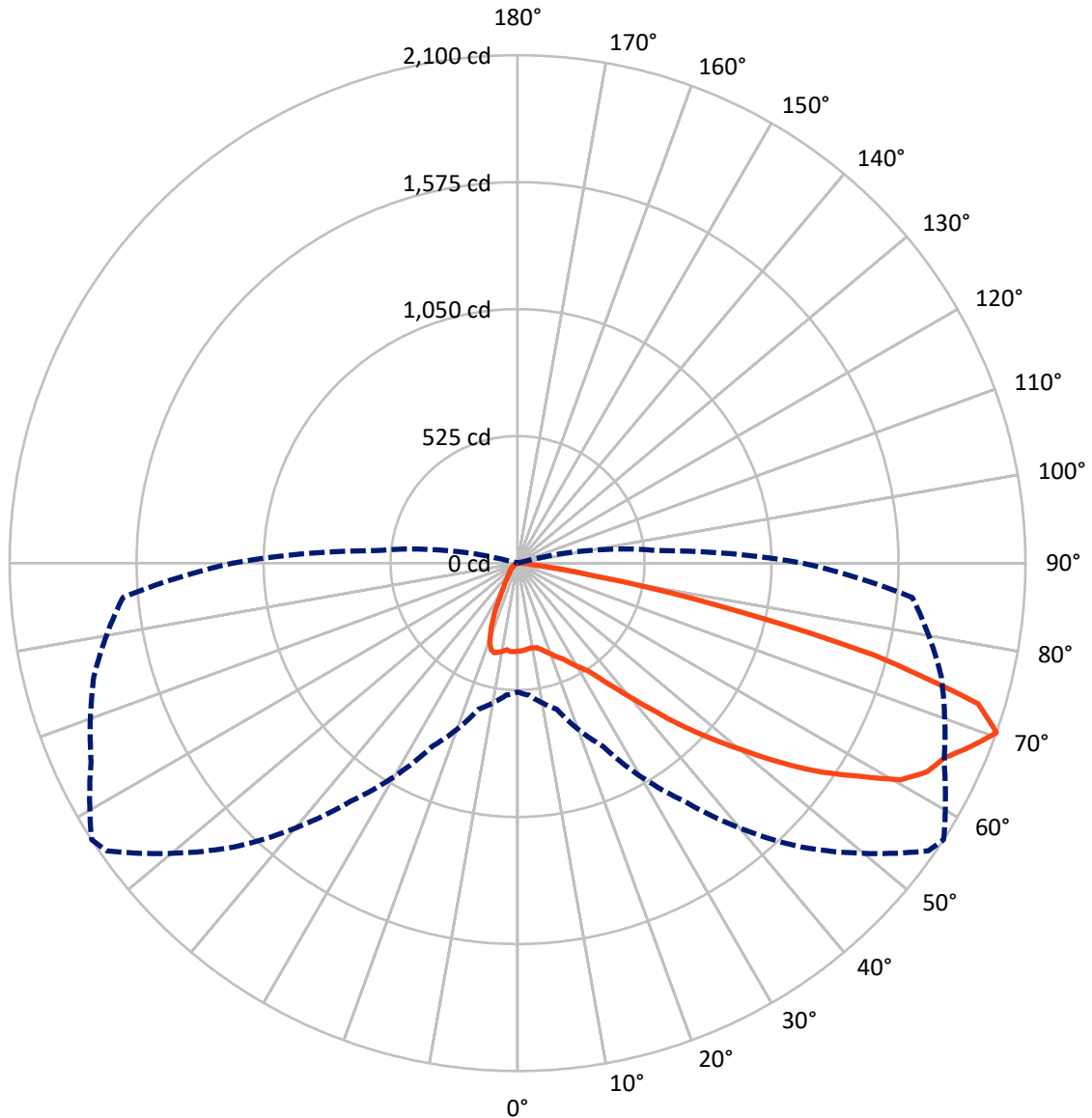
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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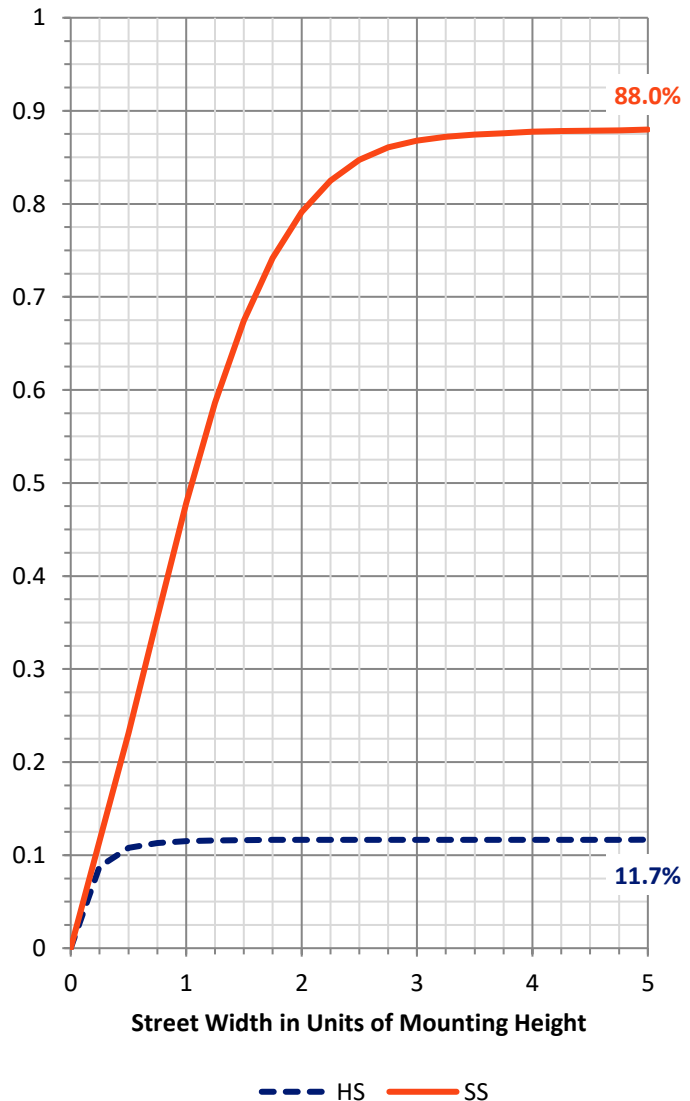
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	348.1	0.0	348.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2605.3	0.0	2605.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	2953.4	0.0	2953.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	1.2
10°-20°	95.2	3.2
20°-30°	160.4	5.4
30°-40°	274.5	9.3
40°-50°	460.9	15.6
50°-60°	707.4	24.0
60°-70°	816.8	27.7
70°-80°	385.8	13.1
80°-90°	18.3	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2953.4	100.0
0°-180°	2953.4	100.0

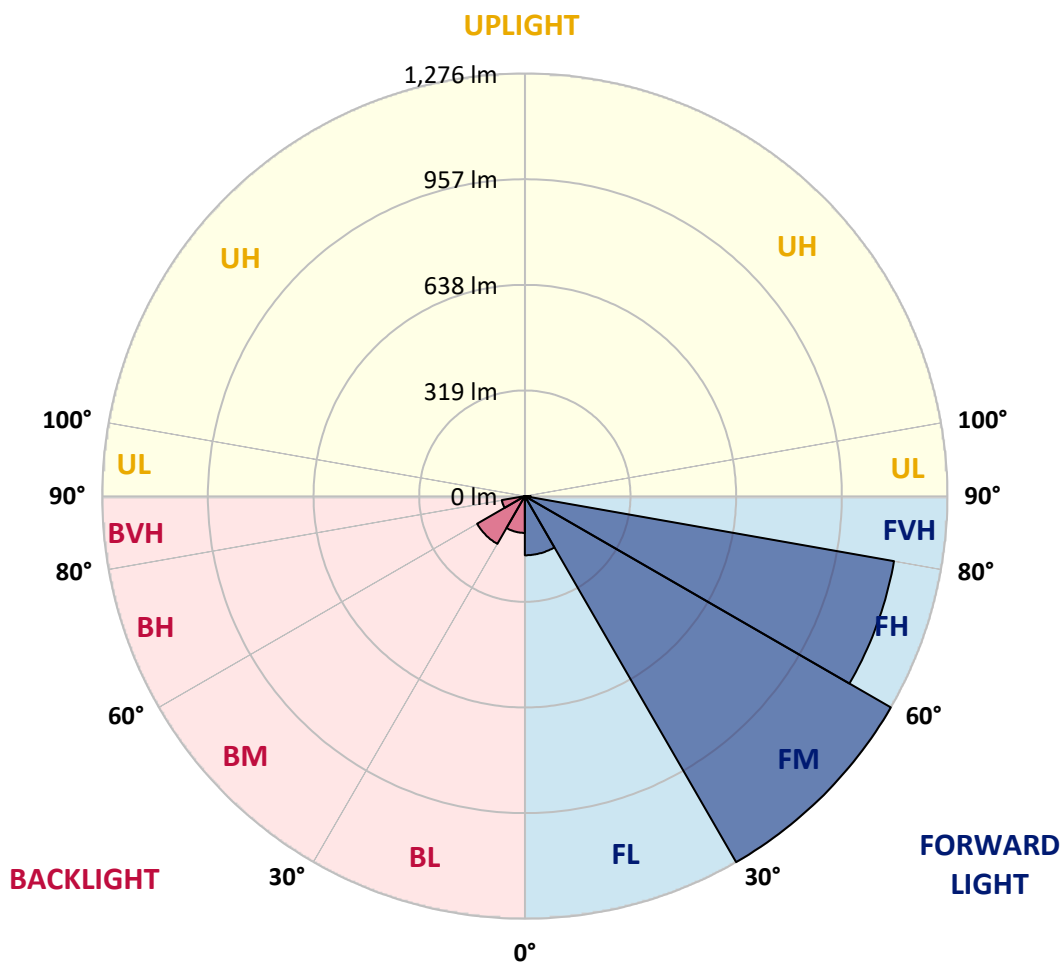


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.7	6.0			
FM (30°-60°)	1276.4	43.2			
FH (60°-80°)	1132.2	38.3			G1/1800
FVH (80°-90°)	18.0	0.6			G1/100
BL (0°-30°)	111.0	3.8	B1/500		
BM (30°-60°)	166.4	5.6	B0/220		
BH (60°-80°)	70.4	2.4	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4
2.5°	359.1	356.9	359.1	362.1	359.1	361.4	360.6	362.9	359.9	359.9	362.1
5°	335.7	339.5	341.0	344.8	348.6	355.4	359.9	359.9	364.4	366.7	369.7
7.5°	327.4	321.4	327.4	330.5	334.2	345.5	352.3	355.4	361.4	369.7	374.2
10°	315.4	319.9	319.9	329.7	335.0	341.8	353.8	356.1	369.7	378.0	382.5
12.5°	314.6	314.6	318.4	325.2	335.7	348.6	363.7	359.1	373.5	388.6	396.1
15°	316.9	322.2	322.2	331.2	339.5	357.6	370.4	371.2	391.6	406.7	413.4
17.5°	326.7	324.4	327.4	332.7	345.5	362.9	384.0	386.3	409.7	430.0	439.9
20°	347.1	350.8	346.3	343.3	348.6	371.2	398.4	402.9	429.3	448.9	458.7
22.5°	423.3	420.2	402.1	381.0	372.0	382.5	411.9	422.5	453.4	476.8	485.1
25°	509.3	504.0	482.9	451.2	409.7	405.1	439.1	439.1	483.6	509.3	507.0
27.5°	590.7	589.2	564.3	531.1	472.3	439.9	461.0	469.3	517.6	538.7	528.9
30°	673.7	675.2	652.6	612.6	550.8	495.7	491.9	498.7	543.2	576.4	556.0
32.5°	770.3	756.7	740.9	685.8	629.2	567.4	531.9	528.9	571.9	602.1	574.9
35°	856.3	848.0	830.7	780.9	716.0	642.1	592.3	584.7	608.1	648.1	618.7
37.5°	931.8	923.5	900.8	867.6	817.1	734.9	664.7	653.4	663.2	705.4	670.0
40°	996.7	998.9	992.9	960.4	913.7	839.0	758.2	740.1	731.8	769.6	729.6
42.5°	1043.4	1065.3	1066.8	1026.8	989.1	948.4	857.8	843.5	823.9	855.6	827.7
45°	1141.5	1129.4	1137.0	1122.6	1081.2	1075.1	972.5	964.2	937.1	947.6	918.2
47.5°	1218.5	1216.2	1230.5	1207.2	1195.8	1196.6	1103.0	1088.7	1050.2	1069.8	1036.6
50°	1263.0	1250.9	1303.0	1321.1	1318.8	1327.9	1235.1	1223.0	1186.0	1214.7	1143.8
52.5°	1273.5	1295.4	1344.5	1410.1	1438.0	1456.9	1379.2	1374.6	1334.7	1352.8	1254.7
55°	1299.9	1321.1	1349.7	1457.6	1561.0	1565.5	1521.0	1525.5	1490.1	1485.5	1360.3
57.5°	1299.2	1294.7	1373.9	1499.1	1642.5	1707.4	1683.2	1661.3	1622.9	1578.3	1428.2
60°	1251.7	1249.4	1331.6	1504.4	1687.0	1835.6	1845.4	1819.8	1723.2	1657.6	1508.2
62.5°	1157.4	1166.4	1249.4	1459.1	1729.2	1881.6	1917.9	1900.5	1780.5	1710.4	1602.5
65°	1049.5	1030.6	1127.2	1346.0	1634.2	1868.1	1946.5	1940.5	1848.4	1767.7	1689.3
67.5°	842.0	850.3	924.2	1158.1	1472.0	1818.3	2013.7	2022.7	1902.8	1818.3	1715.7
70°	533.4	548.5	625.5	836.7	1201.9	1661.3	2074.0	2100.4	1945.8	1813.7	1638.7
72.5°	155.4	161.5	266.3	417.2	765.8	1332.4	1977.5	1991.0	1862.0	1646.3	1267.5
75°	51.3	54.3	78.5	135.8	300.3	688.8	1460.7	1524.8	1481.8	1193.6	725.0
77.5°	34.0	35.5	43.0	64.9	113.9	215.8	783.1	851.8	835.2	559.1	233.9
80°	24.9	25.7	31.7	43.8	69.4	77.7	289.0	334.2	322.9	128.3	46.8
82.5°	15.8	15.8	23.4	30.9	43.8	38.5	83.7	92.8	90.5	49.0	18.1
85°	10.6	11.3	17.4	24.1	24.1	18.1	24.1	27.9	30.2	26.4	8.3
87.5°	3.0	3.8	9.8	16.6	9.8	9.1	8.3	9.1	10.6	14.3	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4
2.5°	364.4	367.4	366.7	368.2	365.9	363.7	365.9	365.9	365.9	363.7	362.1
5°	367.4	365.9	367.4	364.4	367.4	364.4	362.9	358.4	357.6	357.6	360.6
7.5°	372.0	373.5	366.7	366.7	359.9	361.4	357.6	358.4	356.9	354.6	353.1
10°	378.7	384.8	378.0	375.7	368.2	362.1	353.1	348.6	348.6	345.5	348.6
12.5°	397.6	395.3	391.6	384.0	375.0	362.9	341.0	319.1	301.0	287.5	294.2
15°	412.7	411.9	406.7	392.3	380.3	343.3	288.2	231.6	201.4	187.9	185.6
17.5°	436.1	433.8	424.8	405.9	365.9	284.4	197.7	150.1	120.7	113.9	111.7
20°	458.0	457.2	437.6	413.4	329.7	207.5	129.0	98.8	90.5	91.3	89.8
22.5°	481.4	477.6	454.2	404.4	262.6	138.1	92.0	88.3	85.3	84.5	86.0
25°	507.8	494.2	470.8	384.0	193.1	95.1	86.8	83.7	80.7	80.0	80.0
27.5°	518.3	509.3	478.3	335.0	122.2	83.0	81.5	77.7	73.9	71.7	70.9
30°	542.5	527.4	485.9	263.3	86.8	76.2	73.9	69.4	64.1	60.4	60.4
32.5°	566.6	548.5	486.6	184.1	72.4	68.7	64.9	58.8	52.1	48.3	49.0
35°	596.8	571.9	478.3	119.2	64.9	60.4	52.8	46.0	40.0	37.0	37.0
37.5°	648.1	624.7	444.4	78.5	58.8	51.3	43.8	36.2	30.9	28.7	28.7
40°	713.0	682.8	397.6	61.9	52.1	43.8	34.7	27.9	24.9	22.6	22.6
42.5°	790.7	753.0	328.2	55.1	46.0	36.2	27.2	21.9	18.9	18.9	18.1
45°	868.4	806.5	257.3	50.5	40.7	30.2	21.1	17.4	15.8	15.1	15.1
47.5°	979.3	871.4	184.1	46.0	35.5	23.4	17.4	14.3	12.8	12.1	12.8
50°	1085.7	932.5	130.5	41.5	29.4	18.9	14.3	12.8	11.3	10.6	10.6
52.5°	1179.2	974.8	91.3	36.2	24.9	15.8	12.8	11.3	10.6	9.8	9.8
55°	1230.5	960.4	62.6	30.9	20.4	13.6	11.3	9.8	9.1	8.3	8.3
57.5°	1283.4	920.5	47.5	25.7	16.6	12.8	10.6	9.1	8.3	7.5	7.5
60°	1327.9	891.0	37.0	20.4	13.6	10.6	9.1	7.5	6.8	6.0	5.3
62.5°	1330.1	832.2	27.2	15.1	10.6	9.1	7.5	6.0	3.8	3.0	2.3
65°	1339.2	770.3	19.6	11.3	7.5	6.8	5.3	3.0	1.5	0.0	0.0
67.5°	1307.5	697.1	15.8	8.3	5.3	3.8	2.3	0.8	0.0	0.0	0.0
70°	1178.5	588.5	12.1	6.0	3.8	2.3	0.8	0.0	0.0	0.0	0.0
72.5°	843.5	382.5	8.3	4.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0
75°	449.7	163.0	6.0	3.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	141.1	41.5	3.8	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.9	11.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.6	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)